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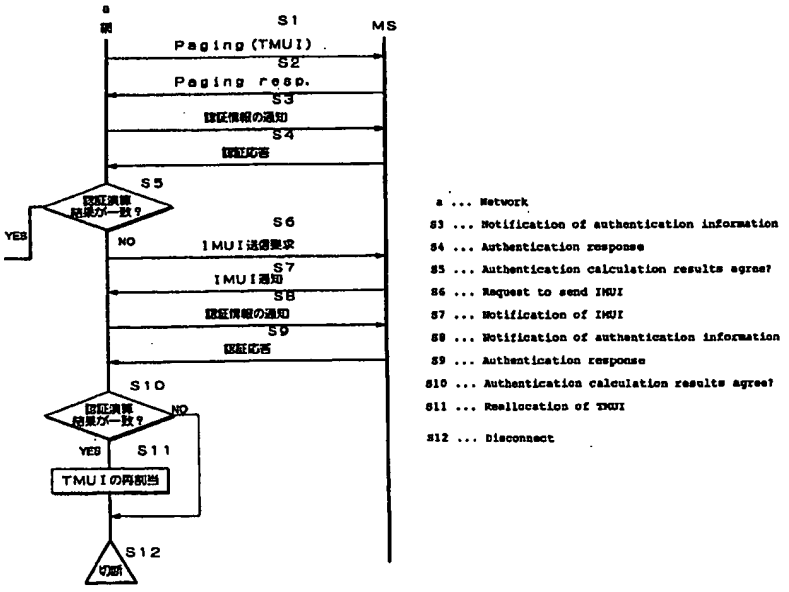
(57) Abstract

When a network performs paging by using a temporary mobile user identifier (TMUI), the corresponding mobile station (MS) sends a response. After this, the network performs authentication by using an authentication key corresponding to the TMUI and random numbers. When the use is proved to the unauthorized as a result of the authentication, the network sends a request that the user should send an individual mobile user identifier (IMUI). Then, the network performs authentication by using an authentication key corresponding to the IMUI and random numbers (S8-S10). When the user is identified as an authorized user, the TMUI is allocated again. By negotiation between the MS and the network side, the object to be hidden and the hiding method for controlling the hiding start timing included in the information to be transmitted are determined. When a call occurs, a diversity handover is started. When a branch switching is needed at an MS, the branch is switched over to a branch through which diversity handover is possible. When another call takes place at an MS that can deal with a plurality of calls simultaneously, the branch configurations and communication frequency bands are made the same for all the calls. When another call occurs at an MS that can deal with a plurality of calls simultaneously, branch configurations and communication frequency bands for which all of the calls are maintained are selected, and transition to them is performed. Thus, a mobile communication system can be built which is suited for transmitting various kinds of data, thereby being adapted to multimedia communication.



MOBILE COMMUNICATION METHOD AND MOBILE COMMUNICATION SYSTEM

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When a network performs paging by using a temporary mobile user identifier (TMUI), the corresponding mobile station (MS) sends a response. After this, the network performs authentication by using an authentication key corresponding to the TMUI and random numbers. When the use is proved to the unauthorized as a result of the authentication, the network sends a request that the user should send an individual mobile user identifier (IMUI). Then, the network performs authentication by using an authentication key corresponding to the IMUI and random numbers (S8-S10). When the user is identified as an authorized user, the TMUI is allocated again. By negotiation between the MS and the network side, the object to be hidden and the hiding method for controlling the hiding start timing included in the information to be transmitted are determined. When a call occurs, a diversity handover is started. When a branch switching is needed at an MS, the branch is switched over to a branch through which diversity handover is possible. When another call takes place at an MS that can deal with a plurality of calls simultaneously, the branch configurations and communication frequency bands are made the same for all the calls. When another call occurs at an MS that can deal with a plurality of calls simultaneously, branch configurations and communication frequency bands for which all of the calls are maintained are selected, and transition to them is performed. Thus, a mobile communication system can be built which is suited for transmitting various kinds of data, thereby being adapted to multimedia communication.